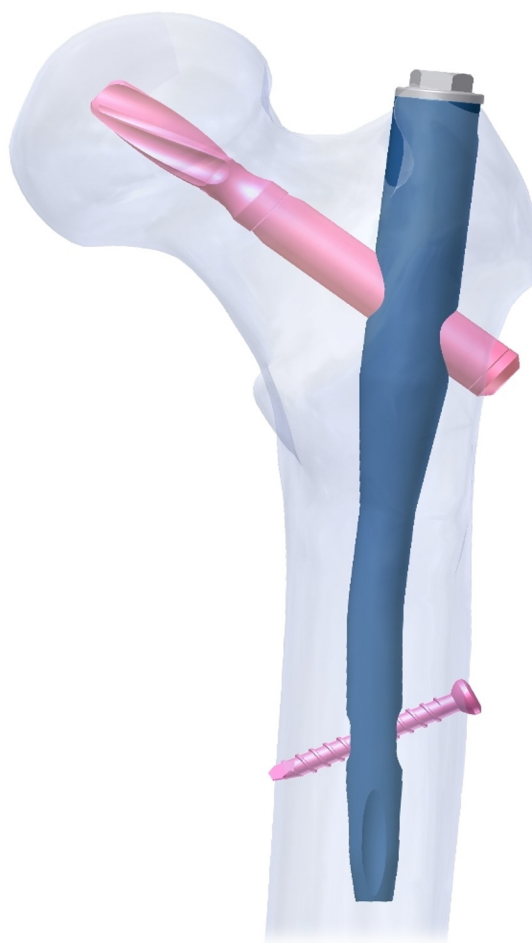




Proximal Femoral Nail Antirotation (PFNA) System

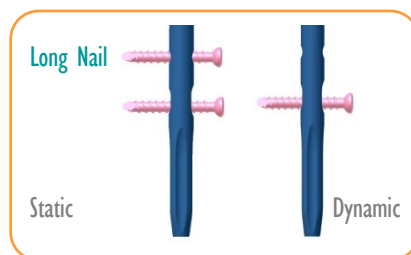


INTRODUCTION

Unstable trochanteric fractures, mainly due to osteoporosis, are a surgical challenge worldwide. ATLAS™ PFNA Nailing System is an optimal implant with regard to prevention of femoral head penetrations for the treatment of unstable trochanteric fractures. It is applied in an intramedullary position allowing for immediate full weight-bearing postoperatively with a sliding helically shaped colum-blade permitting controlled impaction of the metaphyseal fracture zone. Its shape provides an increased contact-area between bone and implant rendering better purchase of the blade in the femoral head compared to a commonly-used screw therefore preventing rotation induced cut-outs. Static or dynamic distal locking can be performed via the aiming arm.

Features and Benefits

- **Anatomical nail design guarantees an optimal fit in the femur**
 - The PFNA has a medial-lateral angle of 6°
 - Optimal stress distribution at the tip of the nail
- **Static and dynamic distal locking options for clinical choice**
- **Better stability in anchoring and anti-rotation**
 - Inserting the PFNA blade compacts the cancellous bone providing additional anchoring, which is especially important in osteoporotic bone.
 - Large surface and increasing core diameter guarantee maximum compaction and optimal hold in bone.
- **Lateral locking — fast and reliable insertion of PFNA blade**
 - All surgical steps required to insert the PFNA locking blade are done through the lateral incision.
 - The PFNA locking blade is automatically locked to prevent rotation of the PFNA blade and the femoral head



Indications

- The ATLAS™ PFNA Short Nail is indicated for pertrochanteric fractures, intertrochanteric fractures and high subtrochanteric fractures.
- The ATLAS™ PFNA Long Nail is indicated for low and extended subtrochanteric fractures, ipsilateral trochanteric fractures, combination fractures (in the proximal femur) and pathological fractures.



TECHNICAL SPECIFICATION

Implant Material

All implants are manufactured from Ti-6Al-4V medical grade, anodized titanium alloy (ASTM F1472) due to this material's superior properties. The titanium alloy offers a lower modulus of elasticity and increased fatigue strength over stainless steel.

Nail

Outer Diameter:

	SHORT / LONG NAIL			
Size (mm)	9	10	11	12
Proximal Dia (mm)	16	16	16	16
Shaft Dia (mm)	9	10	11	12

Inner Diameter:

4.0 mm for all nails. It can allow the Guide Wire with Ball Tip 2.5X1000 mm pass through.

CCD Angle:
130°

Lengths:

- Short Nail: 180 mm TO 240 MM, in 20 mm increments
- Long Nail: 260 mm to 320 mm, in 20 mm increments

Direction:

- Short Nail: Universal design
- Long Nail: Universal design

Cannulation:

All nails are cannulated

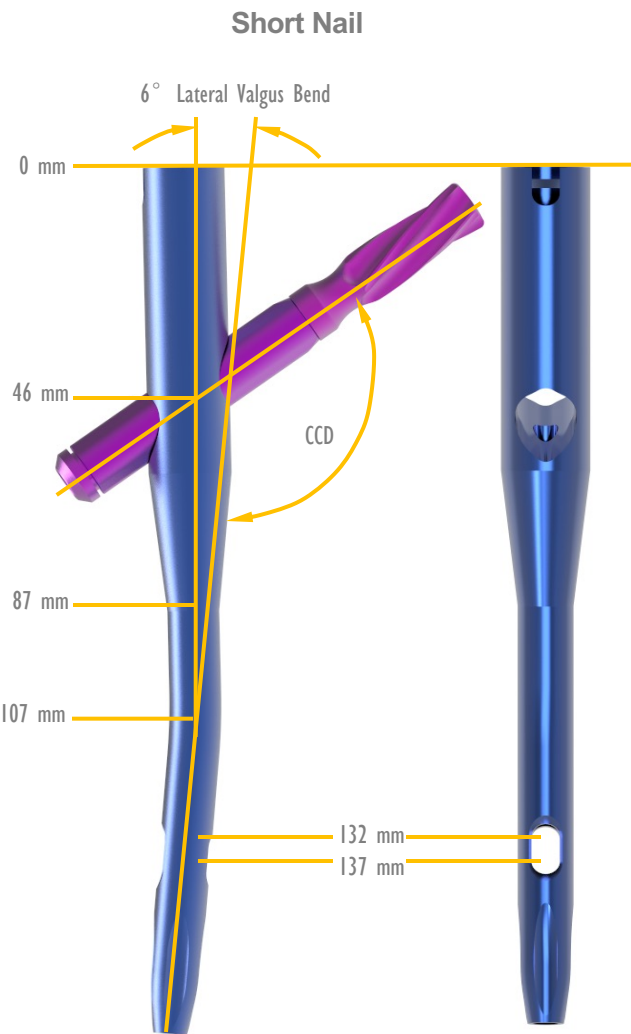
Locking Blade 10.0 mm

Lengths:

- 80 mm to 120 mm (5 mm increments)
- Note: Blade length is measured from top of head to tip

Design:

- 10.0 mm shaft diameter
- Blade length 26.5 mm with 4-Flute
- 5 mm compression length
- Lateral locking - fast and reliable insertion of the blade
- Compaction of cancellous bone design
- Cannulated (Inner diameter 3.2 mm allows the 3.0 mm Guide Wire to pass through)



TECHNICAL SPECIFICATION

Distal Locking Screws 5.0 mm

Lengths:

30 mm to 90 mm (5 mm increments)

Note: Screw length is measured from top of head to tip

Design:

- 4.0 mm core diameter
- 3.5mm hexagonal recess
- Fully threaded
- Self-tapping, blunt tip



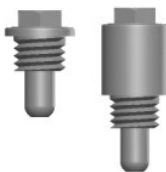
End Cap

Sizes:

0 mm, 5 mm, 10 mm, 15 mm

Design:

- 5.0 mm hexagonal recess
- Cannulated



IMPLANT INFORMATION

End Cap, for ATLAS™ PFNA Nail



REF (SS)	REF (TIT)	SIZE (mm)
MOI 11706000	MOI 31706000	0
MOI 11706005	MOI 31706005	5
MOI 11706010	MOI 31706010	10
MOI 11706015	MOI 31706015	15

Proximal Locking Blade 10.0 mm, for ATLAS™ PFNA



REF (SS)	REF (TIT)	DIA (mm)	LEN (mm)
MOI 11508080	MOI 31508080	10.0	80
MOI 11508085	MOI 31508085	10.0	85
MOI 11508090	MOI 31508090	10.0	90
MOI 11508095	MOI 31508095	10.0	95
MOI 11508100	MOI 31508100	10.0	100
MOI 11508105	MOI 31508105	10.0	105
MOI 11508110	MOI 31508110	10.0	110
MOI 11508115	MOI 31508115	10.0	115
MOI 11508120	MOI 31508120	10.0	120

Distal Locking Screw 5.0 mm, for ATLAS™ PFNA



REF (SS)	REF (TIT)	DIA (mm)	LEN (mm)
MOI 11509030	MOI 31509030	5.0	30
MOI 11509035	MOI 31509035	5.0	35
MOI 11509040	MOI 31509040	5.0	40
MOI 11509045	MOI 31509045	5.0	45
MOI 11509050	MOI 31509050	5.0	50
MOI 11509055	MOI 31509055	5.0	55
MOI 11509060	MOI 31509060	5.0	60
MOI 11509065	MOI 31509065	5.0	65
MOI 11509070	MOI 31509070	5.0	70
MOI 11509075	MOI 31509075	5.0	75
MOI 11509080	MOI 31509080	5.0	80

ATLAS™ PFNA Nail, Cannulated, SHORT



REF (SS)	REF (TIT)	DIA (mm)	LEN (mm)
MOI 11328180	MOI 31328180	9.0	180
MOI 11328200	MOI 31328200	9.0	200
MOI 11328220	MOI 31328220	9.0	220
MOI 11328240	MOI 31328240	9.0	240
MOI 11329180	MOI 31329180	10.0	180
MOI 11329200	MOI 31329200	10.0	200
MOI 11329220	MOI 31329220	10.0	220
MOI 11329240	MOI 31329240	10.0	240
MOI 11330180	MOI 31330180	11.0	180
MOI 11330200	MOI 31330200	11.0	200
MOI 11330220	MOI 31330220	11.0	220
MOI 11330240	MOI 31330240	11.0	240
MOI 11338180	MOI 31338180	12.0	180
MOI 11338200	MOI 31338200	12.0	200
MOI 11338220	MOI 31338220	12.0	220
MOI 11338240	MOI 31338240	12.0	240

ATLAS™ PFNA Nail, LONG



REF (SS)	REF (TIT)	DIA (mm)	LEN (mm)
MOI 11328260	MOI 31328260	9.0	260
MOI 11328280	MOI 31328280	9.0	280
MOI 11328300	MOI 31328300	9.0	300
MOI 11328320	MOI 31328320	9.0	320
MOI 11329260	MOI 31329260	10.0	260
MOI 11329280	MOI 31329280	10.0	280
MOI 11329300	MOI 31329300	10.0	300
MOI 11329320	MOI 31329320	10.0	320
MOI 11330260	MOI 31330260	11.0	260
MOI 11330280	MOI 31330280	11.0	280
MOI 11330300	MOI 31330300	11.0	300
MOI 11330320	MOI 31330320	11.0	320
MOI 11338260	MOI 31338260	12.0	260
MOI 11338280	MOI 31338280	12.0	280
MOI 11338300	MOI 31338300	12.0	300
MOI 11338320	MOI 31338320	12.0	320



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